

Figure 1:

	1	10	20	30	40	50	59																																																					
FcγRIIa																																																												
FcγRIIb																																																												
FcγRIIa	A	A	P	P	K	A	V	L	K	L	E	P	P	W	I	N	V	L	Q	E	D	S	V	T	L	T	C	G	A	R	S	P	E	S	D	S	I	Q	W	F	H	N	G	N	L	I	P	T	H	T	Q	P	S	Y	R	F	K	A	N	
FcγRIIb	A	A	P	P	K	A	V	L	K	L	E	P	Q	W	I	N	V	L	Q	E	D	S	V	T	L	T	C	R	G	T	H	S	P	E	S	D	S	I	Q	W	F	H	N	G	N	L	I	P	T	H	T	Q	P	S	Y	R	F	K	A	N

	60	70	80	90	100	110	119																																																					
FcγRIIa																																																												
FcγRIIb																																																												
FcγRIIa	N	N	D	S	G	E	Y	T	C	Q	T	G	Q	T	S	L	S	D	P	V	H	L	T	V	L	S	E	W	L	V	L	Q	T	P	H	L	E	F	Q	E	G	E	T	I	V	L	R	C	H	S	W	K	D	K	P	L	V	K	V	T
FcγRIIb	N	N	D	S	G	E	Y	T	C	Q	T	G	Q	T	S	L	S	D	P	V	H	L	T	V	L	S	E	W	L	V	L	Q	T	P	H	L	E	F	Q	E	G	E	T	I	V	L	R	C	H	S	W	K	D	K	P	L	V	K	V	T

	120	130	140	150	160	170																																																						
FcγRIIa																																																												
FcγRIIb																																																												
FcγRIIa	F	F	Q	N	G	K	S	Q	K	F	S	R	L	D	P	T	F	S	I	P	Q	A	N	H	S	H	S	G	D	Y	H	C	T	G	N	I	G	Y	T	L	F	S	S	K	P	V	T	I	T	V	Q	V	P							
FcγRIIb	F	F	Q	N	G	K	S	K	K	F	S	R	S	D	P	N	F	S	I	P	Q	A	N	H	S	H	S	G	D	Y	H	C	T	G	N	I	G	Y	T	L	V	S	S	K	P	V	T	I	T	V	Q	A	P							

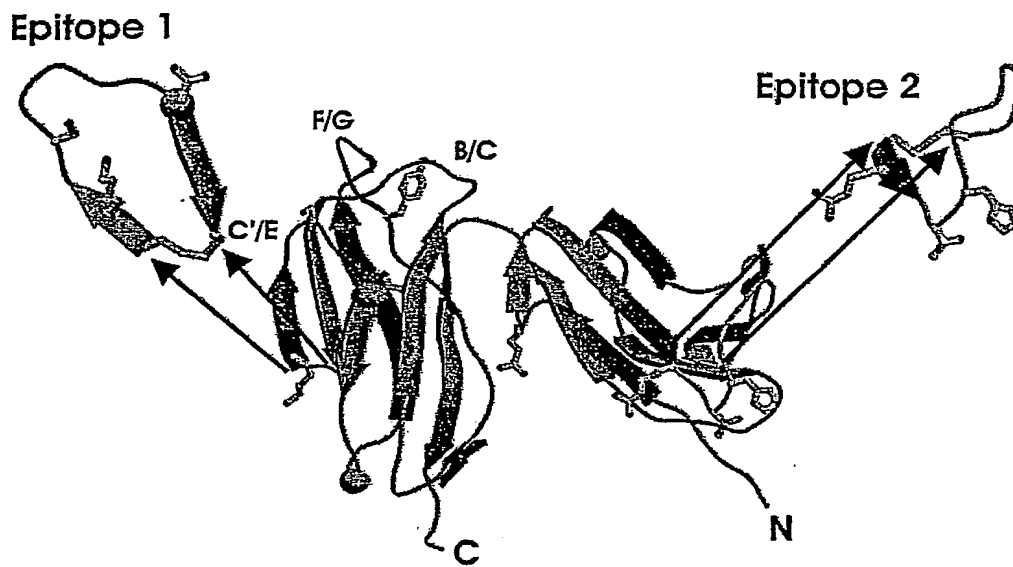
Figure 2:

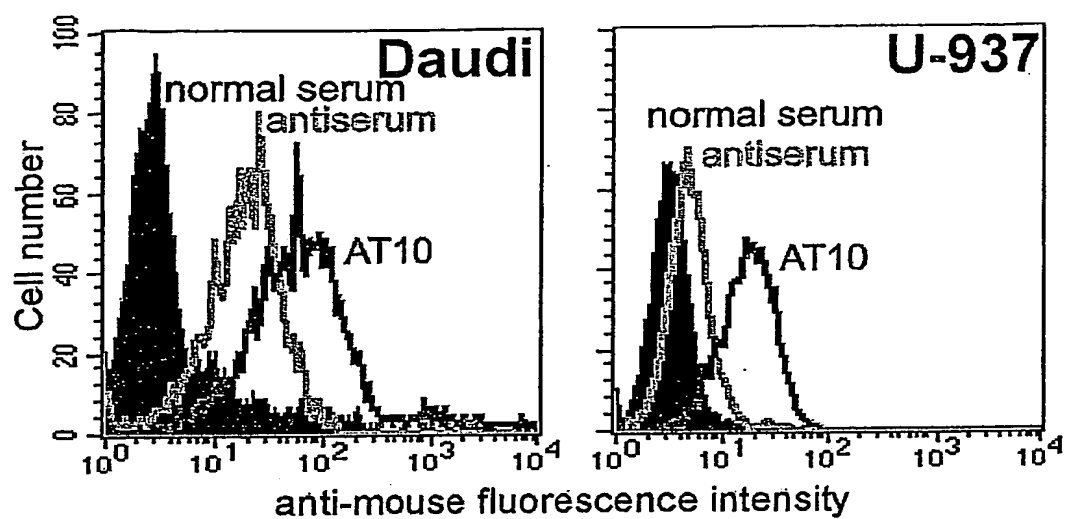
Figure 3:

Figure 4:

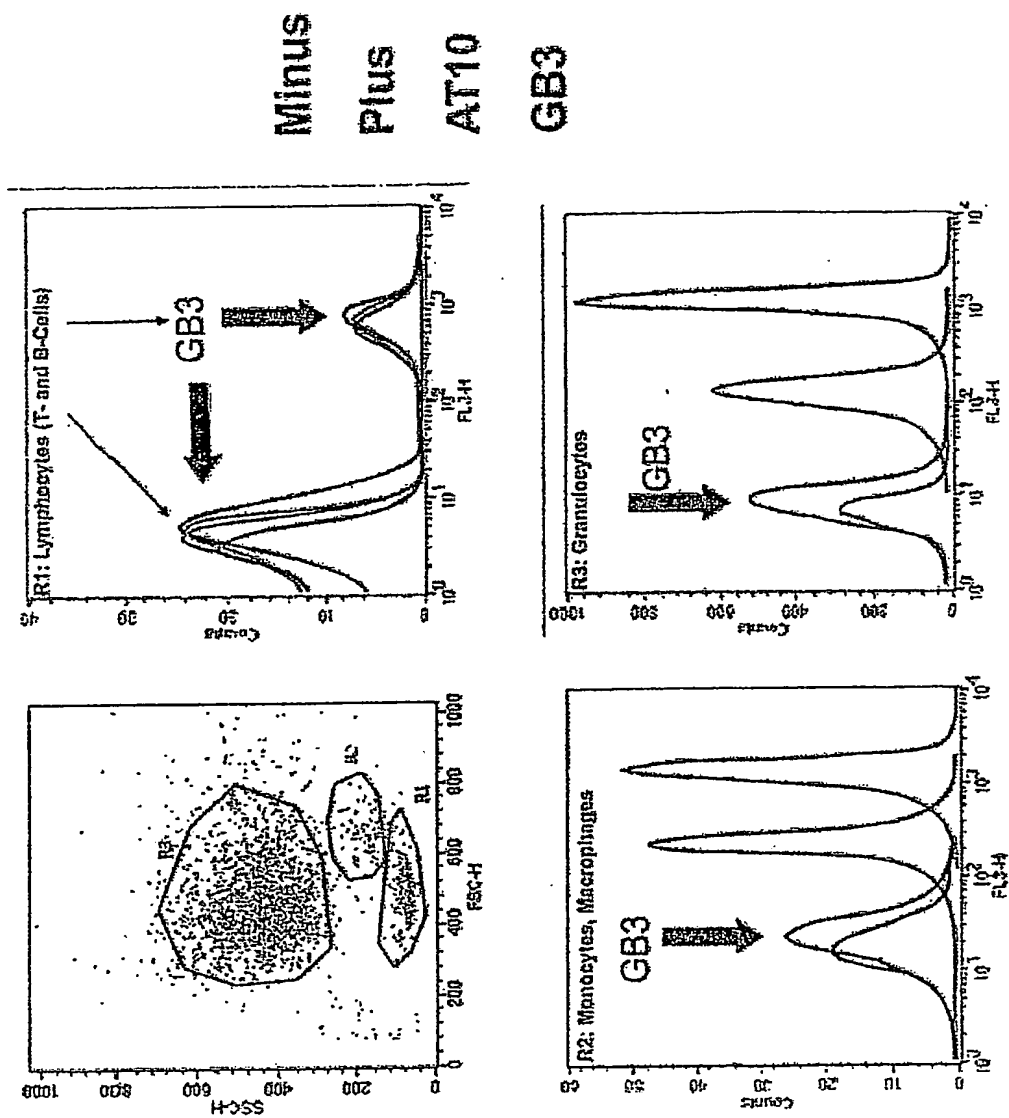


Figure 5:**a) Variable light region of mAb GB3**

agaattcagctgacccagctctccatcctccttatctgcctctctgggagaaagagtcagt
 R I Q L T Q S P S S L S A S L G E R V S

ctcacttgtcgggcaagtcaggaaattagtggttacttaagctggcttcagcagaaacca
 L T C R A S Q E I S G Y L S W L Q Q K P
 CDR1

gatggaactattaaacgcctgatctacgccacatccgctttagattctgggtgtcccaaaa
 D G T I K R L I Y A T S A L D S G V P K
 CDR2

aggttcagtggtcagtggtctgggtcaaattattctctcaccatcagcagccttgagtct
 R F S G S G S G S N Y S L T I S S L E S

gaagattttgcagactattactgtctacaatatgctaattatccgtacacgttcggaggg
 E D F A D Y Y C L Q Y A N Y P Y T F G G
 CDR3

gggaccaagctg
 G T K L

b) Variable heavy region of mAb GB3

gtgcagctgcagcagctctggacctgagctggtgaagcctggggcttcagtgaagatttcc
 V Q L Q Q S G P E L V K P G A S V K I S

tgcaaggcttctggctacaccttcactgactactatatatactgggtgaaacagtggoct
 C K A S G Y T F T D Y Y I Y W V K Q W P
 CDR1

ggacagggacttgagtggattggaatggatttttcctggaactggtaatacttactacaat
 G Q G L E W I G W I F P G T G N T Y Y N
 CDR2

gaaaacttcaaggacaaggccacacttactatagatagatcctccagcacagcctacatg
 E N F K D K A T L T I D R S S S T A Y M
 CDR2 (contd.)

ttgctcggcagcctgacctctgaggactctgcggtctattttctgttatggtccgtttgct
 L L G S L T S E D S A V Y F C Y G P F A
 CDR3

taactggggccaa
 Y W G Q
 CDR3

tcaggaagtcaggaccttgccttggtggcgccctcacagagcctgtccatcacatgcaccgtct
 L Q E S G P G L V A P S Q S L S I T C T V

cagggttctcattaaccgggctatggtgtaaactgggttcgccagcctccaggaaagggctctgg
 S G F S L T G Y G V N W V R Q P P G K G L
 CDR1
agtggctgggaatgatttgggggtgatggaacacagactataattcagctctcaaattccagac
 E W L G M I W G D G N T D Y N S A L K S R
 CDR2
tgagcatcagcaaggacaactccaagagccaagttttcttaaaaatgaacagtctgcacactg
 L S I S K D N S K S Q V F L K M N S L H T

atgacacagccagggtactactgtgccagagagagagattataggcttgactactggggccaag
 D D T A R Y Y C A R E R D Y R L D Y W G Q
 CDR3
ggaccacggtcaccgtctcctcag
 G T T V T V S S

gagctcaccgcagctctccagcctccctttcttgcgctctgtgggagaaactgtcaccatcacatgt
 E L T Q S P A S L S A S V G E T V T I T C

cgagcaagtgggaatatattcacaattatttagcatgggtatcagcagaaacagggaaaatctcct
R A S G N I H N Y L A W Y Q Q K Q G K S P

CDR1

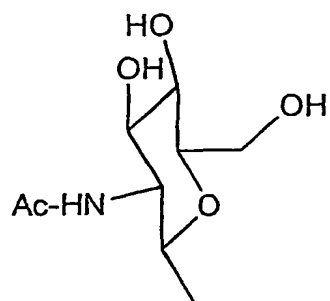
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 Q L L V Y Y T T T L A D G V P S R F S G S

CDR2

ggatcaggaacacaatatattctctcaagatcaacagcctgcaacctgaagattttgggagttat
 G S G T Q Y S L K I N S L Q P E D F G S Y

tactgtcaacatttttggagtactcctcggaagttcggtggagggaaccaagctcgag
 Y C Q H F W S T P R T F G G G T K L E

CDR3

Figure 7:

Ser-Lys-Lys-Phe-Ser-Arg-Ser-Asp-Pro-Asn-Phe-Ser-Gly

Figure 8:

